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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Jin-Ho Ha

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McGuireWoods LLP  
1750 Tysons Blvd  
Suite 1800  
McLean, VA 22102

EXAMINER

NGUYEN, HOAN C

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/850,367	<b>Applicant(s)</b> HA ET AL.	
	<b>Examiner</b> HOAN C. NGUYEN	<b>Art Unit</b> 2871	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-52 is/are pending in the application.  
4a) Of the above claim(s) 1-33 and 43-49 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 34-42 and 50-52 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                            | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election with traverse of Species H (claims 34-42 and 50-52) in Paper on 24 June 2004 is acknowledged.

Applicant's arguments regarding the restriction requirement have been considered; however, the traversal was on the grounds that there is no serious burden on the Examiner in examining all of claims 1-52 together. This is not found persuasive since Species A-H describe the different inventions of parts or sections of the LCD housing, thus these species burden on examiner to search the innovations of different parts or sections of LCD device for different purposes.

Therefore, the requirement is deemed proper and is considered to be final.

Claims 1-33 and 43-49 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions and species, there being no allowable generic or linking claim.

Therefore, ONLY claims 34-42 and 50-52 are pending in the elected Species.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 34-40 and 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Murai (US5986726A).

In regard to claims 34, 38-40, 50 and 52, Murai teaches (Figs. 1-4) a liquid crystal display device comprising:

- displaying unit (a display panel 5) for displaying an image;
- receiving unit (metal sheet 1) for receiving the displaying unit;
- a printed circuit board (a driving circuit board 4) directly mounted on a rear surface of the receiving unit by screwing (col. 3 lines 62-63), for controlling an operation of the displaying means;
- a fixing unit (screw 9) for fixing the printed circuit board to a rear surface of the receiving unit by screwing according to claim 38 (col. 3 lines 62-63); therefore, the printed circuit board is fixed to the rear surface of the receiving unit so as to be placed between the receiving unit and the fixing unit (screw 9) according to claim 39 and the printed circuit board is overlapped at one end thereof with the fixing unit (screw 9) according to 40.

wherein

Claims 35 and 51:

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- the receiving means includes a bottom chassis (metal sheet 1 and engagement portions 11) for receiving the displaying unit and a mold frame (a resin frame 2) for receiving the bottom chassis having an opening formed in a bottom surface exposing a bottom surface of the bottom chassis.

Claim 36:

- the printed circuit board (a driving circuit board 4) is mounted on the exposed bottom surface of the bottom chassis (metal sheet 1 and engagement portions 11).

Claim 37:

- the printed circuit board includes:
  - a power supplying unit for supplying a power to the display unit. The power-supplying unit inherently is included in the printed circuit board to supply power for driving IC 61 and display unit so that the LCD device is able being functioned.
  - A signal converting unit (driving IC 61) for converting a signal provided to the display unit.

1. Claims 34, 38-41, 50 and 52 are rejected under 35 U.S.C. 102(b) as being anticiated by Shirohata (JP 04243225 A).

In regard to claims 34, 38-40, 50 and 52, Shirohata teach (Figs. 1 and 2) a liquid crystal display device comprising:

- displaying unit inherently for displaying an image;

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- receiving unit (lamp house 1) for receiving the displaying unit;
- a printed circuit board (2) directly mounted on a rear surface of the receiving unit, for controlling an operation of the displaying means;
- a fixing unit 3/4 for fixing the printed circuit board to a rear surface of the receiving unit; therefore, the printed circuit board is fixed to the rear surface of the receiving unit so as to be placed between the receiving unit and the fixing unit 3/4 according to claim 39 and the printed circuit board is overlapped at one end thereof with the fixing unit 3/4 according to 40.

wherein

Claim 41:

- fixing unit includes a bracket (projecting parts and clips 4 act like bracket) having first end combined with printed circuit board and second end combined with the rear surface of the receiving unit 1.

2. Claims 34, 38-42, 50 and 52 are rejected under 35 U.S.C. 102(b) as being anticiapted by Lachmann et al. (US4415983).

In regard to claims 34, 38-40, 50 and 52, Lachmann et al. teach (Figs. 1-4) a liquid crystal display device comprising:

- displaying unit (LCD 12) for displaying an image;
- receiving unit (base member 13) for receiving the displaying unit;
- a printed circuit board (PCB 15) directly mounted on a rear surface of the receiving unit, for controlling an operation of the displaying means;

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- a fixing unit (post 26) for fixing the printed circuit board to a rear surface of the receiving unit; therefore, the printed circuit board is fixed to the rear surface of the receiving unit so as to be placed between the receiving unit and the fixing unit 26 according to claim 39 and the printed circuit board is overlapped at one end thereof with the fixing unit 26 according to 40.

wherein

Claim 41:

- fixing unit includes a bracket (post 26 acts like bracket with fastening PCB 15 and base member 13 together is by mating alignment posts 26 with respective openings 31 and staking posts 26 so that PCB 15 is held rigidly against base member 13 as Fig. 1B disclosed) having first end combined with printed circuit board and second end combined with the rear surface of the receiving unit 1.

Claim 42:

- the fixing unit has a height less than that of a highest one of circuit elements 14 constituting the printed circuit board as Fig. 1b disclosed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim H Robert can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER